

DK-US030726

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of :
Tsunehisa SANAGI et al. :
Serial No.: New- Nat'l phase of :
 PCT/JP2004/017166 :
International filing date: November 18, 2004 :
For: IMPELLER OF CENTRIFUGAL FAN AND :
 CENTRIFUGAL FAN DISPOSED WITH :
 THE IMPELLER (AS AMENDED) : .

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner of Patents
Washington, DC 20231

Sir:

In accordance with MPEP 609 and 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicants bring the references listed on the attached PTO-1449-Form to the Examiner's attention and request that they be considered and made of record in this application. Copies of the non-U.S. patents are attached.

Japanese Laid-open Publication No. 52-47567 appears to disclose a method for the preparation of a hollow vane using a block.

Japanese Laid-open Publication No. 60-18243 appears to disclose a production of a hollow vane for a centrifugal fan. An English abstract is provided for the Examiner's convenience.

Japanese Utility Model Publication No. 64-41696 appears to disclose a fan with a metallic hollow impeller.

Japanese Utility Model Publication No. 64-41697 appears to disclose a fan with a hollow impeller.

Japanese Laid-open Publication No. 4-116699 appears to disclose a centrifugal fan with a hollow vane.

* * *

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IAPO Rec'd PCT/PTO 19 DEC 2005

National Phase of PCT/JP2004/017166
International filing date: November 18, 2004

Page 2 of 2

Prompt examination on the merits is respectfully requested.

Respectfully submitted,



David L. Tarnoff
Reg. No. 32,383

SHINJYU GLOBAL IP COUNSELORS, LLP
1233 Twentieth Street, NW, Suite 700
Washington, DC 20036
(202)-293-0444

Dated: 12-19-05

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

of

Application Number	PCT/JP2004/017166
Filing Date	November 18, 2004
First Named Inventor	Tsunehisa SANAGI
Group Art Unit	
Examiner Name	
Attorney Docket Number	DK-US030726

2005

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁸
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		JP-52-47567	12-03-1977	Yorozu		No
		JP-60-18243-A	01-30-1985	Takahashi		No
		JP-64-41696-U	03-13-1989	Hirai et al.		No
		JP-64-41697-U	03-13-1989	Hirai et al.		No
		JP-4-116699-U	10-19-1992	Iwasaki		No
		JP-8-159091-A	06-18-1996	Haraguchi et al.		Yes
		JP-10-196590-A	07-31-1998	Kida et al.		Yes
		JP-2000-230499-A	08-22-2000	Kurihara et al.		Yes
		JP-2001-90692-A	04-03-2001	Ishijima et al.		Yes
		JP-2003-320585-A	11-11-2003	Yura		Yes

Examiner Signature _____ **Date Considered** _____

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the

Enter Office that issued the document, by the two letter code (WIPO Standard ST. 16),⁵ and the year of the reign of the Emperor must precede the serial number of the patent document.⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.